

Please type a plus sign (+) inside this box



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **1** of **3**

Complete if Known

Application Number	Unassigned
Filing Date	
First Named Inventor	Yuan, Zheng
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	016301-045600US

2012/12/20
10/090/01
JCS

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
RD	AA	6,248,397		Ye	08/18/2001	
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					
	AL					
	AM					
	AN					
	AO					
	AP					
	AQ					
	AR					
	AS					
	AT					

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	AU							
	AV							
	AW							
	AX							
	AY							
	AZ							
	BA							

Examiner
Signature

Rm Pompey

Date
Considered

3-21-04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PA 3194458 v1

Please type a plus sign (+) inside this box



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Sheet 2 of 2		Complete if Known	
		Application Number	Unassigned
		Filing Date	
		First Named Inventor	Yuan, Zheng
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
		Attorney Docket Number	016301-045600US

JC986 U.S. PTO
10/090103
02/27/02

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	85							

Examiner Signature	<i>for Lopez</i>	Date Considered	3-21-04
-----------------------	------------------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231
PA 3194458 v1

Please type a plus sign (+) inside this box → +

PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0851-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known	
		Application Number	Unassigned
		Filing Date	
		First Named Inventor	Yuan, Zheng
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
		Attorney Docket Number	016301-045600US

JCS86 U.S. PTO
 10/090103
 02/27/02

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
RP	BC	WERNER GASSER et al., Quasi-monolayer deposition of silicon dioxide, Thin Solid Films, 1994, pp. 213-218, 250.	
RP	BD	GEORGE, S.M., et al., Atomic layer controlled deposition of SiO ₂ and Al ₂ O ₃ using ABAB . . . binary reaction sequence chemistry, Applied Surface Science, 1994, pp. 460-467, 82/83	
RP	BE	KLAUS, J.W., et al., Atomic layer deposition of SiO ₂ at room temperature using NH ₃ -catalyzed sequential surface reactions, Surface Science, 2000, pp. 81-90, 447.	
RP	BF	KLAUS, J.W., et al., Atomic layer controlled growth of SiO ₂ films using binary reaction sequence chemistry, Appl. Phys. Lett., 1997, pp. 1092-1094, 70(9).	
RP	BG	KLAUS, J.W., et al., Atomic layer deposition of SiO ₂ using catalyzed and uncatalyzed self-limiting surface reactions, Surface Review and Letters, 1999, pp. 435-448, Vol. 6, Nos. 384.	
RP	BH	KLAUS, J.W., et al., Growth of SiO ₂ at room temperature with the use of catalyzed sequential Half-Reactions, Science, 1997, pp. 1934-1938, Vol. 278.	
RP	BI	MORISHITA, et al., Atomic-layer Chemical-Vapor-Deposition of SiO ₂ by Cyclic Exposures of CH ₃ OSi(NCO) ₃ and H ₂ O ₂ , Jpn. J. Appl. Phys., 1995, pp. 5738-5742, Vol. 34.	
RP	BJ	SNEH, et al., Atomic layer growth of SiO ₂ on Si(100) using SiCl ₄ and H ₂ O in a binary reaction sequence, Surface Science, 1995, pp. 135-152, 334.	
	BK		
	BL		
	BM		

Examiner Signature		Date Considered	3-21-04
--------------------	--	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
PA 3194458 v1